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**POWER OF ATTORNEY  
AND  
CORRESPONDENCE ADDRESS  
INDICATION FORM**

Application Number	10/673,864
Filing Date	September 29, 2003
First Named Inventor	David Haase, et al
Title	System and Method for Managing ...
Art Unit	2187
Examiner Name	Farrokh, Hashem
Attorney Docket Number	EMC-03-102

I hereby revoke all previous powers of attorney given in the above-identified application.

I hereby appoint:

☒ Practitioners associated with the Customer Number:

24227

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number:

OR

☐ The address associated with Customer Number:

OR

☐ Firm or  
Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the:

☐ Applicant/Inventor.☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)**SIGNATURE of Applicant or Assignee of Record**

Signature		Date	1-23-06
Name	John M. Gunther	Telephone	508-293-7255
Title and Company	Vice President and Assistant General Counsel		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of        forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: EMC CorporationApplication No./Patent No. 10/673,864 Filed/Issue Date: September 29, 2002Entitled: **SYSTEM AND METHOD FOR MANAGING DATA ASSOCIATED WITH COPYING AND  
REPLICATION PROCEDURES IN A DATA STORAGE ENVIRONMENT**EMC Corporation a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
(The extent (by percentage) of its ownership interest is \_\_\_\_\_ %)

in the patent application/patent identified above by virtue of either:

- A. ☒ An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 015221, Frame 0550, or for which a copy thereof is attached.

**OR**

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

  
\_\_\_\_\_  
Signature1-23-06  
\_\_\_\_\_  
DateJohn M. Gunther  
\_\_\_\_\_  
Printed or Typed Name508-293-7255  
\_\_\_\_\_  
Telephone NumberVice President and Assistant General Counsel  
\_\_\_\_\_  
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

OCTOBER 06, 2004

EMC CORPORATION  
ROBERT KEVIN PERKINS, ESQ.  
OFFICE OF THE GENERAL COUNSEL  
176 SOUTH STREET  
HOPKINTON, MA 01748

RECEIVED

OCT 12 2004

EMC CORPORATION  
Intellectual Property Group  
Office of the General Counsel  
Legal Department

\*102725472A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/15/2004

REEL/FRAME: 015221/0550  
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: EMC-03-102

ASSIGNOR:

HAASE, DAVID

DOC DATE: 03/22/2004

ASSIGNOR:

GULVE, SOMNATH

DOC DATE: 03/22/2004

ASSIGNOR:

HAYNES, MICHAEL D.

DOC DATE: 03/22/2004

ASSIGNOR:

DUPREY, DENNIS

DOC DATE: 03/22/2004

ASSIGNEE:

EMC CORPORATION  
176 SOUTH STREET  
HOPKINTON, MASSACHUSETTS 01748

015221/0550 PAGE 2

SERIAL NUMBER: 10673864

FILING DATE: 09/29/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: SYSTEM AND METHOD FOR MANAGING DATA ASSOCIATED WITH COPYING AND  
REPLICATION PROCEDURES IN A DATA STORAGE ENVIRONMENT

SHARON BROOKS, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



-20-2004

EMC-03-102

HEET

Y

4/15/04

102725472

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

David Haase, Somnath Gulve, Michael D. Haynes and  
Dennis Duprey

Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No

## 2. Name and address of receiving party(ies):

Name: EMC Corporation

Internal Address: \_\_\_\_\_

## 3. Nature of Conveyance:

[X] Assignment [ ] Merger

[ ] Security Agreement [ ] Change of Name

[ ] Other \_\_\_\_\_

Street Address: 176 South StreetCity: Hopkinton State: MA Zip: 01748Execution Date: March 22, 2004

Additional name(s) and address(es) attached? [ ] Yes [X] No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 09/29/03A. Patent Application No.(s) 10/673,864

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom  
correspondence concerning document should be mailed:Name: Robert Kevin Perkins, Esq.Internal Address: EMC CorporationOffice of the General CounselStreet Address: 176 South StreetCity: Hopkinton State: MA Zip: 01748

## 6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41): \$40.00

[ ] Enclosed

[X] Authorized to be charged to deposit account

8. Deposit account number: 05-0889

(Attach duplicate of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 9. Signature.

Robert Kevin Perkins (Reg. No. 36,634)

Name of Person Signing

Signature

Date

Total number of pages comprising cover sheet: [ ]

## ASSIGNMENT

**WHEREAS**, we, David Haase of Fuquay Varina, North Carolina, Somnath Gulve of Morrisville, North Carolina, Michael D. Haynes of Raleigh, North Carolina, and Dennis Duprey of Raleigh, North Carolina, have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled SYSTEM AND METHOD FOR MANAGING DATA ASSOCIATED WITH COPYING AND REPLICATION PROCEDURES IN A DATA STORAGE ENVIRONMENT, the specification of which:

[ ] is being executed on even date herewith and is about to be filed in the United States Patent Office;

[ X] was filed on September 29, 2003 as U.S. Application No. 10,673,864;

[ ] was patented under U.S. Patent No. \_\_\_\_\_ on \_\_\_\_\_.

**WHEREAS**, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 176 South Street, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

**NOW, THEREFORE**, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

**AND**, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its

successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date:

3/22/04

  
Inventor's Signature

Print full name of first inventor:

**David Haase**

Residence:

904 Cedar Point Ct, Fuquay Varina, North Carolina 27526

Citizenship:

USA

Mailing Address:

Same as above

STATE/Commonwealth of NORTH CAROLINA

COUNTY OF DURHAM

Then personally appeared before me the above-named David Haase and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 22 day of MARCH, 2004.

  
Notary Public

Print Name: JULIE L. OSTERMEYER

My Commission expires 02/07/2008

Date:

3/22/04



Inventor's Signature

Print full name of second inventor:

**Somnath Gulve**

Residence:

2224 Glengate Circle, Morrisville, North Carolina 27560

Citizenship:

India

Mailing Address:

Same as above

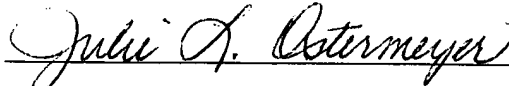
STATE/Commonwealth of

NORTH CAROLINA

COUNTY OF

DURHAM

Then personally appeared before me the above-named Somnath Gulve and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 22 day of MARCH, 2004.



Notary Public

Print Name: JULIE L. OSTERMEYER

My Commission expires 02/09/2008



3/22/04

Michael D. Haynes  
Inventor's Signature

Print full name of third inventor:

**Michael D. Haynes**

Residence:

8513 Wood Lawn Drive, Raleigh, North Carolina 27613

Citizenship:

USA

Mailing Address:

Same as above

STATE/Commonwealth of

NORTH CAROLINA

COUNTY OF

DURHAM

Then personally appeared before me the above-named Michael D. Haynes and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 22 day of MARCH, 2004.

Julie L. Ostermeyer  
Notary Public

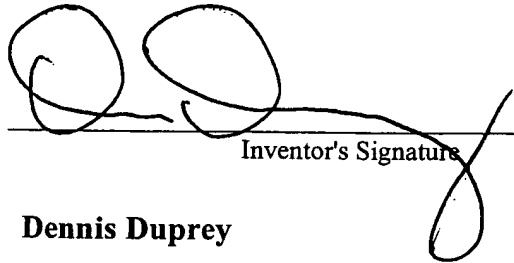
Print Name:

JULIE L. OSTERMEYER

My Commission expires 02/09/2008

Date:

3/22/04

  
Inventor's Signature

Print full name of fourth inventor:

**Dennis Duprey**

Residence:

100 Tidbury Court, Raleigh, North Carolina 27615

Citizenship:

USA

Mailing Address:

Same as above

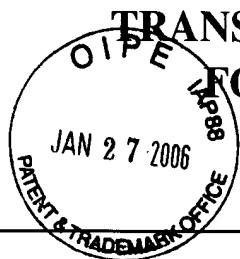
STATE/Commonwealth of NORTH CAROLINA  
COUNTY OF DURHAM

Then personally appeared before me the above-named Dennis Duprey and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 22 day of MARCH, 2004.

  
Notary Public

Print Name: JULIE L. OSTERMEYER

My Commission expires 02/09/2008



# TRANSMITTAL FORM

Application No.:	10/673,864
Filing Date:	September 29, 2003
First Named Inventor:	David Haase, et al
Confirmation No.	1363
Group Art Unit	2187
Examiner:	Farrokh, Hashem
Customer No.	24227
Docket No.	EMC-03-102

Total Number of Pages in this Submission:

## ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Authorization for the Commissioner to charge Deposit Account No. 05-0889 for fees associated with this transaction (in duplicate)	<input type="checkbox"/> Assignment	<input type="checkbox"/> Petition for Revival of an Unintentionally Abandoned Application [37 CFR 1.137(b)] (in duplicate)
<input type="checkbox"/> Amendment/Response	<input type="checkbox"/> Recordation Cover Sheet	<input type="checkbox"/> Status Inquiry
<input type="checkbox"/> After Final	<input type="checkbox"/> Declaration/Power of Attorney	<input type="checkbox"/> Form PTOL-85B, Part B -Issue Fee Payment Transmittal," (in duplicate)
<input type="checkbox"/> Affidavits/Decl.	<input checked="" type="checkbox"/> Power of Attorney and Correspondence Address Indication Form	<input type="checkbox"/> Express Abandonment Request
<input type="checkbox"/> Extension of Time Request for _____ Months	<input checked="" type="checkbox"/> Statement Under 37 CFR 3.73(b)	<input type="checkbox"/> Terminal Disclaimer
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Formal Drawings	<input type="checkbox"/> Customer Number Association
<input type="checkbox"/> Request for Continued Examination Transmittal	<input type="checkbox"/> Letter to Official Draftsperson with _____ (____) sheets of redlined changes to drawings	<input checked="" type="checkbox"/> Certificate of First Class Mailing
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	<input type="checkbox"/> Copy of PTO 948, "Notice of Draftsperson's Patent Review"	<input type="checkbox"/> Certificate of Express Mail Mailing
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Preliminary Amendment	<input checked="" type="checkbox"/> Postcard
<input type="checkbox"/> Fee Transmittal (in duplicate)	<input type="checkbox"/> Additional Enclosures:	

## SIGNATURE OF APPLICANT, ATTORNEY OR AGENT

Date January 25, 2006 Robert Kevin Perkins Esq.  
Robert Kevin Perkins Esq. (Reg. No. 36,634)  
EMC Corporation  
Office of the General Counsel  
176 South Street  
Hopkinton, MA 01748

Tel: (508) 293-6985  
Fax: (508) 293-7189

## CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8]

I hereby certify that this correspondence and the above-referenced enclosures are being:

- ☒ Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
- ☐ Transmitted by facsimile on the date shown below to the Patent and Trademark Office at (703)

Date January 25, 2006

Signature Sandra A. Kulaga

Sandra A. Kulaga

Typed or printed name of person signing certificate